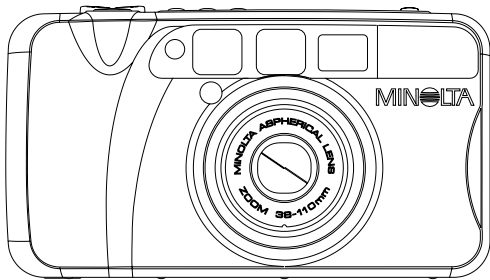


# MINOLTA

The essentials of imaging

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## IIO ZOOM

**E** INSTRUCTION MANUAL

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## FOR PROPER AND SAFE USE

Read and understand all warnings and cautions before using this product.

### ⚠ WARNING

Using batteries improperly can cause them to leak harmful solutions, overheat, or explode which may damage property or cause personal injury. Do not ignore the following warnings.

- Only use the batteries specified in this instruction manual.
- Do not install the batteries with the polarity (+/-) reversed.
- Do not use batteries which show wear or damage.
- Do not expose batteries to fire, high temperatures, water, or moisture.
- Do not attempt to recharge, short, or disassemble batteries.
- Do not store batteries near or in metallic products.
- Do not use leaking batteries. If fluid from the batteries enters your eye, immediately rinse the eye with plenty of fresh water and contact a doctor. If fluid from the batteries makes contact with your skin or clothing, wash the area thoroughly with water.
- Tape over battery contacts to avoid short-circuiting during disposal; always follow local regulations for battery disposal.

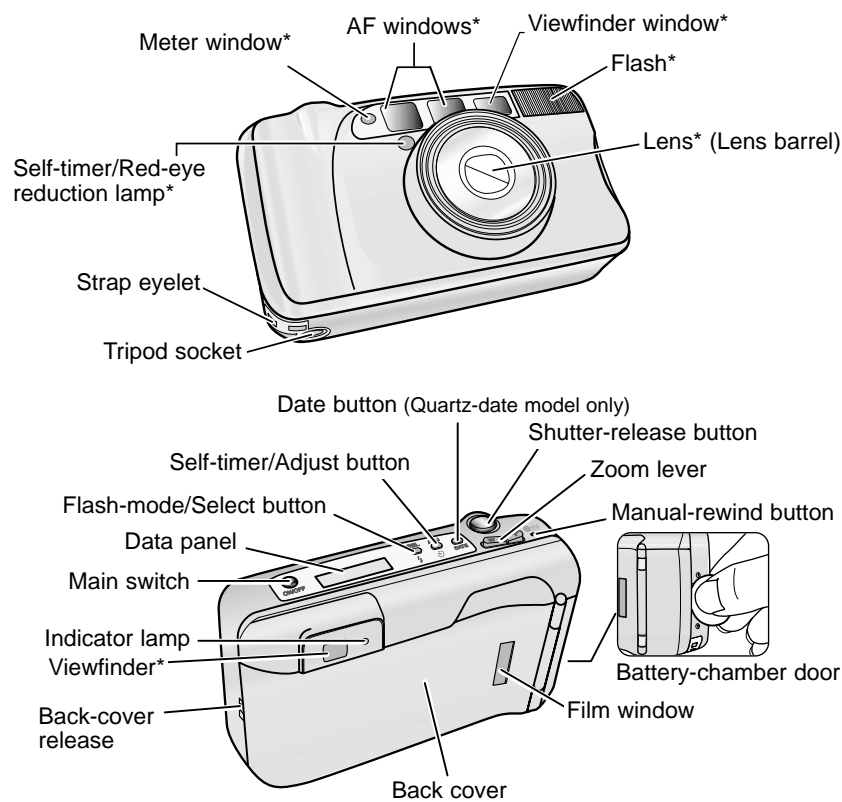
- Do not disassemble this product. Electric shock may cause injury if a high voltage circuit inside the product is touched.
- Immediately remove the batteries and discontinue use if the camera is dropped or subjected to an impact in which the interior, especially the flash unit, is exposed. The flash has a high voltage circuit which may cause an electric shock resulting in injury. The continued use of a damaged product or part may cause injuries.
- Keep batteries or small parts that could be swallowed away from infants. Contact a doctor immediately if an object is swallowed.
- Store this product out of reach of children. Be careful when around children not to harm them with the product or parts.
- Do not fire the flash directly into the eyes. It may damage eyesight.
- Do not fire the flash at vehicle operators. It may cause a distraction or temporary blindness which may lead to an accident.
- Do not look directly at the sun or strong light sources through the viewfinder. It may damage your eyesight or cause blindness.
- Do not expose this product to liquids or operate this product with wet hands. If liquid enters the product, immediately remove the batteries and discontinue use. The continued use of a product exposed to liquids may cause damage or injury through fire or electric shock.
- Do not use the product near inflammable gases or liquids such as gasoline, benzine, or paint thinner. Do not use inflammable products such as alcohol, benzine, or paint thinner to clean the product. The use of inflammable cleaners and solvents may cause an explosion or fire.
- If the product emits a strange odor, heat, or smoke, discontinue use. Immediately remove the batteries taking care not to burn yourself as batteries become hot with use. The continued use of a damaged product or part may cause injuries.
- Take the product to a Minolta Service Facility when repairs are required.

### ⚠ CAUTION

- Do not use or store the product in a hot or humid environment such as the glove compartment or trunk of a car. It may damage the product and batteries which may result in burns or injuries caused by heat, fire, explosion, or leaking battery fluid.
- If batteries are leaking, discontinue use of the product.
- The lens retracts when the camera is turned off or the auto-power-off function is activated. Touching the lens barrel while it is retracting may cause injury.
- Do not fire the flash while it is in contact with people or objects. The flash unit discharges a large amount of energy which may cause burns.

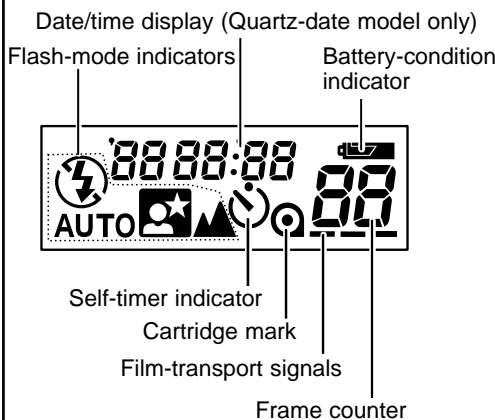
## NAME OF PARTS

### CAMERA BODY



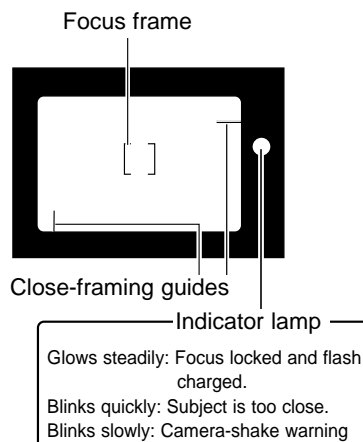
\*Keep these surfaces clean. Please read the care and storage section in this manual.

### DATA PANEL

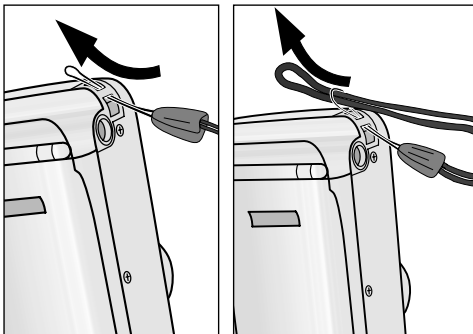


All icons have been shown for clarity.

### VIEWFINDER



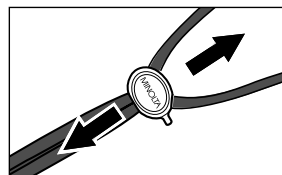
## ATTACHING THE STRAP



Attach the strap as shown.

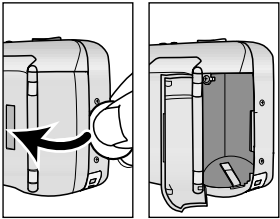
### BUTTON KEY

- The button key is included on the strap. The key is used to push the manual-rewind button.

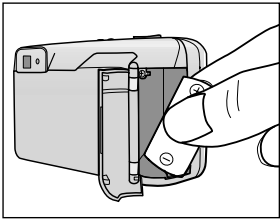


## INSERTING THE BATTERY

Your camera uses one 3-volt CR123A or DL123A lithium battery.



1. Using a coin or similar object, open the battery chamber door.
- When changing batteries, make sure the camera is off.



2. Insert the battery with the positive terminal up as illustrated inside the battery-chamber.

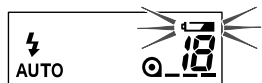
3. Snap the battery-chamber door shut.
- Quartz-date model: the date and time must be set.

### BATTERY CONDITION INDICATOR

Each time the camera is turned on, an icon will appear on the data panel to indicate the power status of the battery.



The battery condition indicator briefly appears: power is sufficient for all camera operations.

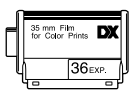


The battery condition indicator blinks: power is sufficient for operation, but the battery must be replaced as soon as possible.



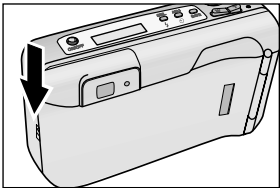
The battery condition indicator blinks, no other icons are displayed on the data panel: the battery must be replaced. The shutter will not release.

## LOADING THE FILM



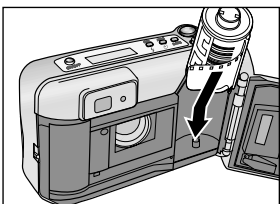
Only use 35mm, DX-coded negative film. ISO 400 speed film is recommended for best results.

- The use of slide film is not recommended.
- Do not use Polaroid instant 35mm film. Winding problems may occur.



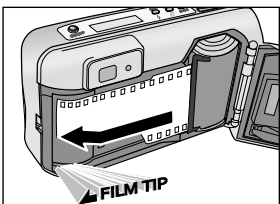
1. Slide the back-cover release down to open the back cover.

- Always load and unload film in subdued light.





2. Place the film cartridge into the film chamber. Extend the film leader to the film-tip mark. Make sure the film lays flat.

- If the film tip extends beyond the film-tip mark, push the excess film back into the cartridge.



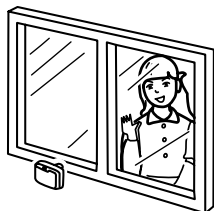
3. Close the back cover.

- The film automatically advances to the first frame and  appears on the data panel.
- If the film has been loaded improperly,  will blink on the data panel and the shutter will remain locked. Open the back cover and repeat the loading procedure.

This camera has a safety lock feature that prevents the camera from being opened accidentally when film is loaded. The film-chamber lock should automatically release when the film is rewound.

- If the back cover does not open when no film is in the camera, turn the main switch off and on to release the film chamber lock.

### SPECIAL FOCUS SITUATIONS

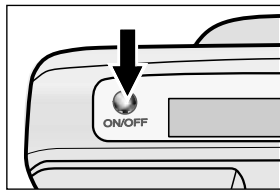


The camera may not be able to focus in certain situations. In these situations, the focus-lock function can be used to focus on an object at the same distance as the main subject, and then the image can be recomposed to take the picture.

The autofocus system may not be able to focus on the following:

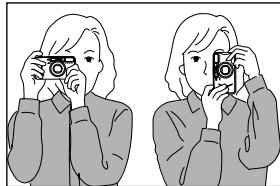
- Bright light sources such as neon signs.
- Highly reflective surfaces such as water or mirrors.
- Flames or fireworks.
- Dark objects and surfaces with low reflectance.
- Objects behind glass, bars, or other partitions.
- Objects smaller than the focus frames.

## BASIC OPERATION



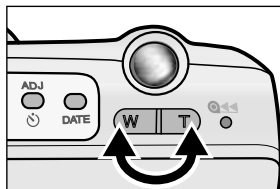
1. Press the main switch to turn the camera on.

- To conserve power, the camera automatically turns off if an operation is not made within eight minutes.



2. Hold the camera steady making sure not cover the flash, lens, or AF windows with your fingers.

- For vertical pictures, turn the camera so the flash is positioned above the lens as illustrated.

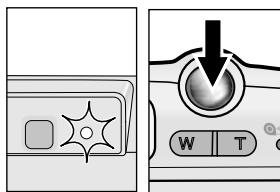


3. Look through the viewfinder and press the T side of the zoom lever to zoom in or the W side to zoom out.

T = telephoto: zoom in  
W = wide angle: zoom out



4. Place the focus frames on the subject and press the shutter-release button partway down.



5. When the indicator lamp glows, press the shutter-release button all the way down to take the picture.

- Press the shutter-release button with slow, steady pressure.
- The film automatically advances to the next frame.
- After use, press the main switch to turn the camera off.
- The flash will fire automatically in low-light.

### FOCUS LOCK

Subjects outside the focus frame may not be in focus. Use focus lock to ensure sharp pictures.



1. Place the focus frame on your subject.

2. Press and hold the shutter-release button partway down; the indicator lamp should glow to indicate focus lock.

- The indicator lamp confirms focus lock. If the lamp does not glow, repeat steps 1 and 2.



3. Without lifting your finger, recompose the picture. Press the shutter-release button all the way down to take the picture.

- The focus lock is canceled when the shutter button is released.



### FOR CLOSE SUBJECT

If the indicator lamp blinks rapidly, the subject is too close; the shutter cannot be released. Make sure the camera-to-subject distance is at least 70cm (2.3ft) at the wide-angle setting or 80cm (2.6ft.) at the telephoto setting.

- When taking pictures at extremely close distances, the indicator lamp may blink slowly and the shutter can be released, but the focus may not be accurate.

When taking pictures with subjects closer than 1.5m (4.9ft), the viewfinder image and the actual film image will be different. The difference increases as the subject becomes closer, especially when using the telephoto setting. At the closest focusing distance, the top and left side of the actual film image is indicated by the close-framing guides.



Close-framing guides



Actual image



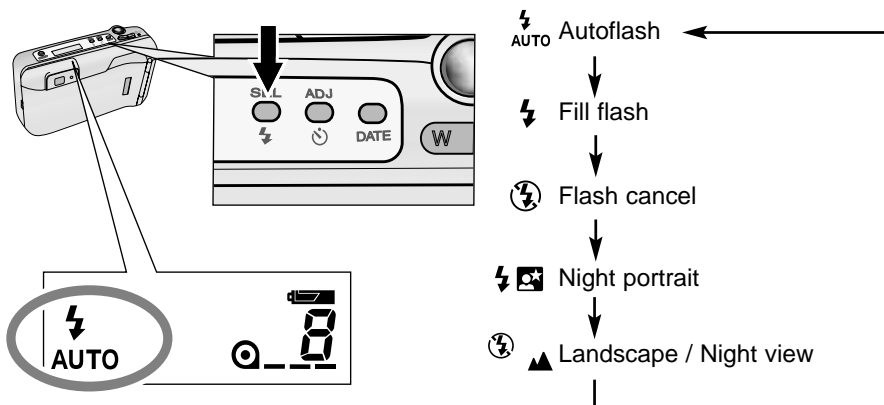
1. Place the focus frame on the subject and press the shutter-release button partway down. The indicator lamp will glow to indicate focus lock.



2. While pressing the shutter-release button partway down, recompose the picture so that the top and left edge of the area in the picture is aligned with the guides. Press the shutter-release button all the way down to take the photograph.

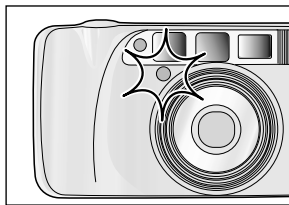
## SELECTING THE FLASH-MODE

The camera has five flash-modes. Press the flash-mode button until the corresponding indicator is displayed on the data panel. Each time the flash-mode button is pressed the mode cycles as shown. When the camera is turned off, the mode is reset to autoflash.



### RED-EYE REDUCTION

When the shutter-release button is pressed partway down, the self-timer/red-eye reduction lamp on the front of the camera will automatically glow to reduce the red-eye effect in portraits. Press the shutter-release button part way down for a few seconds before taking pictures. This function is active with all flash modes



### FLASH RANGE

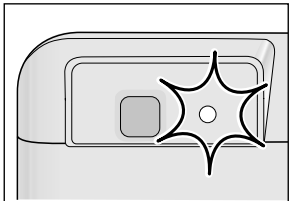
The flash range depends on the film speed and focal length in use. To ensure proper exposure, the subject must be within the flash range.

Focal length	38mm	110mm
	W   T	W   T
Film speed	W(ide-angle)	T(elephoto)
ISO100	0.7 - 5.3m 2.3 - 17.4ft.	0.8 - 2.0m 2.6 - 6.6ft.
ISO400	0.7 - 10.6m 2.3 - 34.8ft.	0.8 - 4.0m 2.6 - 13.1ft.

- Flash ranges apply to color negative film only.

### AUTOFLASH

The flash will fire automatically in low-light. This is the default flash mode.

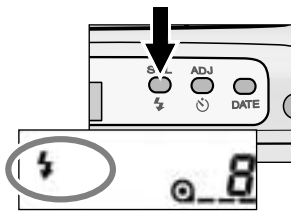


- The flash charges when the shutter-release button is pressed partway down. When the indicator lamp glows, the flash is charged and ready to fire.

### FILL FLASH

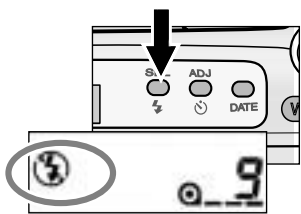


The flash will fire when the shutter is released regardless of lighting. Use fill flash to reduce harsh shadows on your subject's face, or in back-lit situations.



Press the flash-mode button until the fill-flash indicator (⚡) appears on the data panel. Take the picture as described in the basic operation section.

### FLASH CANCEL



The flash will not fire. Use flash cancel when flash photograph is prohibited, the subject is beyond the flash range, or to preserve the natural lighting.

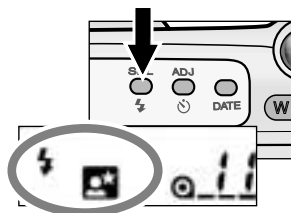
Press the flash-mode button until the flash-cancel indicator (⚡/) appears on the data panel. Take the picture as described in the basic operation section.

- Shutter speed may be slow. The use of a tripod is recommended.

### NIGHT PORTRAIT



In the night portrait mode, the camera balances the flash and existing light exposures for pictures of people in front of a sunset or night scene.



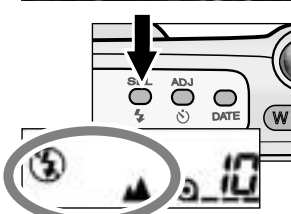
Press the flash-mode button until the night-portrait indicator (⚡□) appears on the data panel. Take the picture as described in the basic operation section.

- Shutter speed may be slow. The use of a tripod is recommended. Warn your subject not to move after the flash burst as the shutter may still be open for the background exposure.

### LANDSCAPE / NIGHT VIEW



The flash will not fire in this mode and the focus is set to infinity. For photographs or landscapes, night scenery, or other distant subjects. This mode is especially useful when photographing landscapes through windows.

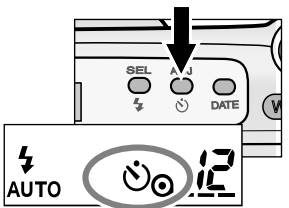


Press the flash-mode button until the landscape/night view indicator (⚡△) appears on the data panel. Take the picture as described in the basic operation section.

- Shutter speed may be slow. Use of the tripod is recommended.

## SELF-TIMER

The self-timer delays release of the shutter for approximately 10 seconds after the shutter-release button is pressed.



- Place the camera on a tripod. Press the self-timer button until the self-timer indicator (⌚) appears on the data panel.
- Place the subject in the focus frames and press the shutter-release button partway down to lock the focus and charge the flash.

- When the indicator lamp glows, the focus is locked; the picture can be recomposed.

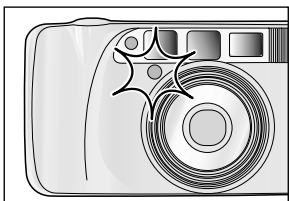
- Press the shutter-release button all the way down to start the self-timer countdown.

- ⌚ will blink on the data panel. The self-timer lamp on the front of the camera will blink slowly during the countdown, then rapidly just before the shutter is released.

- The autofocus and exposure is locked when the shutter-release button is pressed. Do not stand in front of the camera when starting the self-timer.

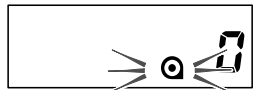
- To cancel the self-timer, press the self-timer button or turn the camera off.

- The self-timer is automatically canceled after the shutter releases.



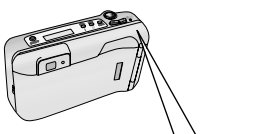
## REWINDING THE FILM

Your camera automatically rewinds the film after the last exposure is taken.



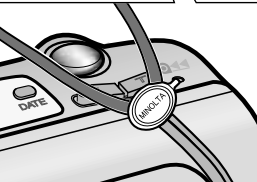
When ⌚ blinks on the data panel, open the back cover and remove the film.

- Do not open the back cover until the rewind motor stops. Never use force.
- If the rewind motor stops before the film has been completely rewound, all the indicators will blink. Remove and insert the battery or press the manual-rewind button.
- If the back cover does not open, turn the main switch off and on to release the film chamber lock.
- Although more pictures than specified on the roll may be taken, the film processor may not print more than the number specified on the film cassette.



### MANUAL REWIND

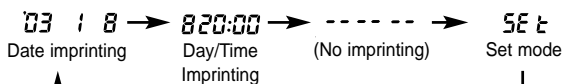
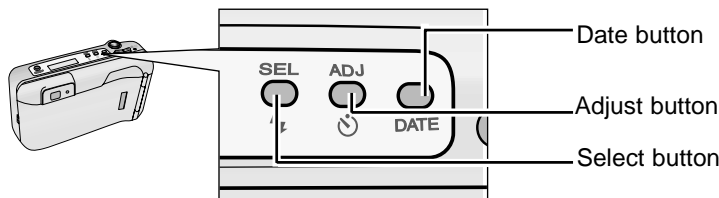
To rewind the film before finishing the roll, turn the camera on and gently press the manual rewind button using the button key on the strap.



## FOR OWNERS OF THE QUARTZ-DATE MODEL

### IMPRINTING THE DATE OR TIME

The imprinting feature enables the date or time to be printed onto the lower-right portion of the picture. The calendar is programmed through the year 2099.

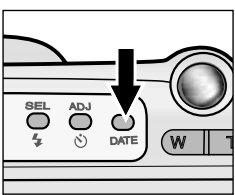


Turn the camera on, then press the date button to choose the date imprinting mode.

- If the date-time display blinks, the clock and calendar must be set. Only the no imprinting and set mode options are available.
- Since the date is recorded when the film is advanced to the next frame, the last frame of the roll may not have the date or time imprinted.

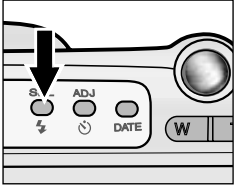
### SETTING THE DATE OR TIME

The date and time must be reset each time the battery is replaced.



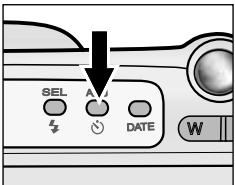
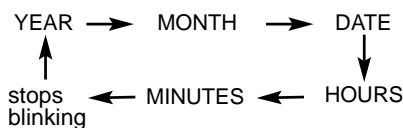
1. Turn the camera on. Press the date button until "SEt" appears on the data panel.

SE t



2. Press the select button until the item to be adjusted blinks.

- The clock and calendar items cycle in the following order:

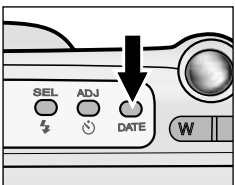


3. Press the adjust button or zoom lever to change the blinking item.

- The numerals continues to change as long as the button is held down.
- Pressing the W side of the zoom lever counts down, the T side counts up.



4. Repeat steps 2 and 3 until the clock and calendar display is correct.

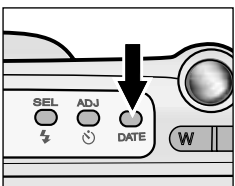


5. Press the date button until the display stops blinking to set the clock and calendar.

- The camera will return to the shooting mode automatically after five seconds. Pressing the select button again or pressing the shutter-release button partway down will also return the camera to the shooting mode.
- Pressing the select button until the date/time display stops blinking will also set the calendar and clock.

### CHANGING THE DATE FORMAT

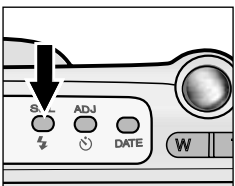
The order of year, month, and day can be changed.



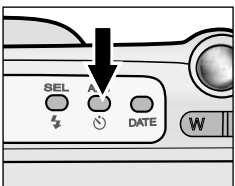
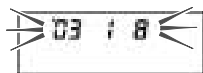
1. Turn the camera on.

2. Press the date button until "SEt" appears on the data panel.

SE t

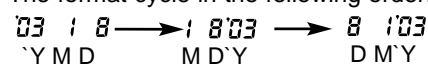


3. Press and hold the select button for more than 2 seconds until the entire display blinks.



4. Press the adjust button or zoom lever to change the display format.

The format cycle in the following order:



5. Press the date button to set the date format.

- The camera will return to the shooting mode automatically after five seconds. Pressing the date button again or pressing the shutter-release button partway down will also return the camera to the shooting mode.
- Pressing the select button until the date/time display stops blinking will also set the date format.

## CARE AND STORAGE

### OPERATING TEMPERATURE AND CONDITIONS

- This camera is designed for use from -10° to 40 °C (14 to 104 °F).
- Never leave the camera where it may be subjected to extreme temperatures such as in the glove compartment of a car.
- At colder temperatures, the data panel response time will be slow. At higher temperatures, the display will temporarily darken, but will be restored when the temperature normalizes.
- Never subject the camera to extreme humidity.
- To prevent condensation from forming, place the camera in a sealed plastic bag when bringing it from a cold environment into a warm one. Allow it to come to room temperature before removing it from the bag.
- When photographing in cold weather, keep the camera and spare batteries inside your coat to keep them warm when you are not shooting. Cold batteries will regain some of their charge when they warm up.
- This camera is not waterproof, dust-proof, or sand-proof. When using this camera near water or on the beach, water, dust, or sand may cause damage. Protect the camera from moisture and splashes, especially saltwater spray. Be extremely careful to keep sand from both the interior and exterior of the camera and its accessories.

### CLEANING

- Keep the AF windows clean to ensure accurate focusing.
- If the camera body is dirty, gently wipe it clean with a soft, clean, dry cloth.
- To clean the lens surface, first brush away any dust or sand. Then, if necessary, moisten a lens tissue with lens cleaning fluid and gently wipe the lens in a circular motion, starting from the center.
- Never place lens fluid directly on the lens.
- Never touch the lens surface with your fingers.
- Never use alcohol or solvents to clean the camera.

### STORAGE

- Store the camera in a cool, dry, well-ventilated area away from dust and chemicals. For very long periods, place the camera in an airtight container with a silica gel drying agent.
- Before using after prolonged storage, always check the camera's operation to make sure it is functioning properly.

### BEFORE IMPORTANT EVENTS

- Check camera operation and take test photographs.
- Minolta is not responsible for any loss which may occur due to equipment malfunction.

### QUESTIONS AND SERVICE

- If you have questions about your camera, contact your local camera dealer or write to the Minolta distributor in your area.
- Before shipping your camera for repair, please contact an authorized Minolta service facility for instructions.

### CAMERA ERROR

- If all the indicators on the data panel blink, or the data panel is blank and the camera will not function with fresh batteries, remove and reinsert the batteries. If the camera does not resume normal operation, or the camera malfunctions repeatedly, contact an authorized Minolta service facility.

## TECHNICAL SPECIFICATIONS

<b>Camera Type:</b>	35mm lens-shutter camera
<b>Lens:</b>	38-110mm f/5.4 - 10.5 zoom lens 4 elements in 4 groups
<b>Viewfinder:</b>	Magnification: 0.4X - 1.02X Field of View : 86% at 3m (9.8ft.) Eye-relief: 20.3mm from the eyepiece 18mm from the eyepiece frame
<b>Focusing Range:</b>	(W): 0.7m - ∞ (2.3ft. - ∞) (T): 0.8m - ∞ (2.6ft. - ∞)
<b>Film Speed: Settings</b>	Automatic for DX-coded negative film Non-DX coded film set to ISO100.
	Range ISO 25 to 3200
<b>Metering Range (ISO 100):</b>	Ev 6 - 16
<b>Shutter Speed range:</b>	4 - 1/500 s.
<b>Battery:</b>	One 3V CR123A lithium battery Battery performance: approx. 13 rolls based on Minolta's standard test method using 24-exposure rolls with flash for 50% of the exposures.
<b>Dimensions(WxHxD):</b>	114 x 62.5 x 46mm (4.5 x 2.5 x 1.8in)
<b>Weight:</b>	185g (6.5oz.) without batteries

Specifications are based on the latest information available at the time of printing and are subject to change without notice.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.



This mark on your camera certifies that this camera meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for conformité Européenne (European Conformity).